

Title (en)
Finned-tube space heater.

Title (de)
Rippenrohrraumheizkörper.

Title (fr)
Tuyau à ailettes circulaires pour chauffer des locaux.

Publication
EP 0281401 A2 19880907 (EN)

Application
EP 88301872 A 19880303

Priority
US 2149687 A 19870304

Abstract (en)
A baseboard-type space heater is characterised by a boiler (12) connected to deliver a vaporized high-boiling-point working fluid consisting of a mixture of ethylene glycol and water to an upwardly inclined finned-tube heat exchanger (14) at a pressure of between approximately -34.5kN/m<2> (-5 p.s.i.) and 100kN/m<2> (15 p.s.i.) and at a temperature of between approximately 88C (190 DEG F). and 121C (250 DEG F). where the internal volume of the heat exchanger in relation to the total system volume does not exceed approximately 15% and the electrical energy supplied to the working fluid heater increases from a minimum level of approximately 300 watts for a 300mm (one foot) long heat exchanger at a rate of approximately 125 watts for each additional 300mm (one foot) in length up to a length of 2400mm (eight feet).

IPC 1-7
F24H 3/08

IPC 8 full level
F24H 3/00 (2006.01)

CPC (source: EP US)
F24H 3/004 (2013.01 - EP US)

Cited by
WO2010081957A1; FR2941290A1; FR2654808A1; US8909034B2

Designated contracting state (EPC)
AT CH DE LI NL SE

DOCDB simple family (publication)
EP 0281401 A2 19880907; EP 0281401 A3 19890222; BE 1001097 A5 19890711; CA 1292497 C 19911126; ES 2005793 A6 19890316; FR 2611867 A1 19880909; GB 2204393 A 19881109; GB 2204393 B 19900808; GB 8805126 D0 19880330; IT 221507 Z2 19940613; IT 8819632 A0 19880303; IT MI910031 U1 19920716; US 4791274 A 19881213

DOCDB simple family (application)
EP 88301872 A 19880303; BE 8800246 A 19880303; CA 560247 A 19880301; ES 8800638 A 19880303; FR 8802813 A 19880304; GB 8805126 A 19880303; IT 1963288 A 19880303; IT MI910031 U 19910116; US 2149687 A 19870304